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RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

-Application Serial Number:

Source:

Date Processed by STIC:

1-3D-04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4:2 PROGRAM, ACCESSIBLE THROUGH THE US PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2.4U.S. Postal Service: Commissioner for Patents; P.O. Box 1450, Alexandria, VA 22313-1450
- U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

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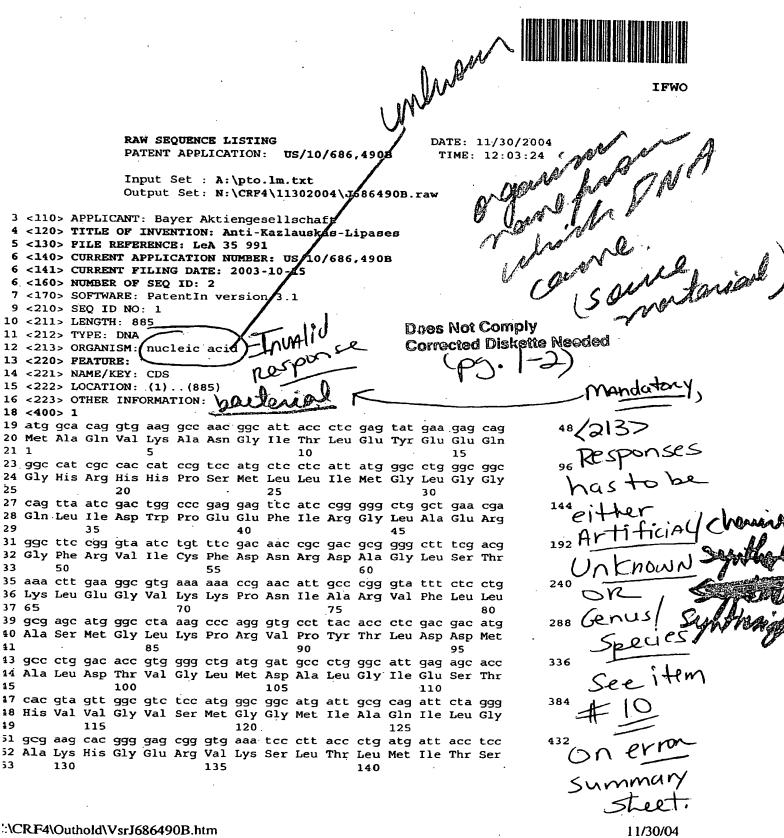
Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION SERIAL NUMBER.
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS WHICH WERE INSERTED BY PTO SOFTWARE Wrapped Mucleics The numberfeet at the end of each line "wrapped" down to the next time.
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2 Invalid the same and the same
2Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces. Numbering under each second 72 characters in length. This includes white spaces.
Missligned Amino Numbering The numbering under each 5th amino acid is missligned. Do not use tab codes between numbers: Name Section Sect
use space characters instead
Non-ASCII Thousand Th
inc submitted file amount of the submitted fi
casure your subsequent submission is saved in ASCII lext. S
SVariable Length Scourges(s)
cach n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some number of each

GPatentin 2.0 A Thurst in the Carlot in t
"bug" in Patentln version 2.0 has caused the <220>-<223> section that some may be missing sequences(s) Normally, Patentln would automateally generate this section from the the subsequent amino acid sequence. Please manually copy the relevant < 720>- 233>
previously coded nucleic acid sequence. Please manually eapy the relevant <220>-<223> section to the subsequence amino acid the subsequent amino acid sequence. This applies to the mandatory <220>-<223> section to Artificial or Unknown sequence.
the subsequent amino acid sequence. Please manually copy the relevant <220>-<223> section from the Artificial or Unknown sequences. Skipped Sequences
(OLD RULES) (2) INFORMATION FOR SEQ ID NO X (insert SEQ ID NO where "X" is shown.
(i) SEQUENCE OF SEQ ID NO X (unsert SEQ ID NO matter gives for each skipped sequence
(OLD RULES) (2) INFORMATION FOR SEQ ID NO X (insert SEQ ID NO where "X" is shown) (4) SEQUENCE CHARACTERISTICS (Do not insert any sold and insert any sold any sold and insert any sold any sold and insert any sold any sold and insert any sold and insert any sold and insert any sold any sold and insert any sold any sold and insert any sold any sold any sold any sold and insert any sold and insert any sold
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2 years)
Please also adjust the "(ii) NUMBER OF SEQUENCES "response to include the skipped sequences. [NEW RUI FC:
Skipped Sequences Sequences Sequences
(NEW RULES) <210> requence(s) missing if intentional please recently (in
210> scownes at mentional, picase insert the following
<400> sequence id number Ono One One One One One One One
Use of n's or Xaa's Use of n's and
Per 1.823 of Sequence Rules, use of <220>.<221> is MANDATORY if n's or Xaa's are present In <220> to <223> section, please explain focation of n or Xaa, and which result
to CZZ3> section, please captain focation of a winner of n's or Xaa's are present
Per 1 \$23 are
Response - Scientific and Control of Sequence Rules, the only valid <2113 response
Response Per 1.82) of Sequence Rules, the only valid <213> responses are Unknown Artificial Sequence no X22 represents section is required when <213>
SCANCULAGO -
Use of <>>>0 ===== """stiff (lic <120> "Feature" and second
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-13) (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-13) (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-13)
(See "Federal Registration Source of genetic material in 2700 to 2700
0 Vol. 63. No. 104 on 20414 to
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Page I of 5



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19

DATE: 11/30/2004

PATENT APPLICATION: US/10/686,490B TIME: 12:03:24 Input Set : A:\pto.lm.txt Output Set: N:\CRF4\11302004\J686490B.raw ; tee gge aac eee ege atg eeg geg eee agg eeg eag gtg etg eaa aag 480 ; Ser Gly Asn Pro Arg Met Pro Ala Pro Arg Pro Gln Val Leu Gln Lys 150 155 ttt atg cgg gtg ccc aag agc atg gat aag gaa gag tgg att aaa tac 528 Phe Met Arg Val Pro Lys Ser Met Asp Lys Glu Glu Trp Ile Lys Tyr 165 170 , aac ttg gag ctt tta acc acc atc ggc agc ccc ggg ttg gac cgg gag 576 Asn Leu Glu Leu Leu Thr Thr Ile Gly Ser Pro Gly Leu Asp Arg Glu 180 185 190 aag ctg gcc tta gac gtg agg aag agc ata gag cgg tgc ctt tgc ccc 624 : Lys Leu Ala Leu Asp Val Arg Lys Ser Ile Glu Arg Cys Leu Cys Pro 200 gaa ggc acg cag cgg cag ctg gca gcc atc ctg cag agc ggc agc agg 672 Glu Gly Thr Gln Arg Gln Leu Ala Ala Ile Leu Gln Ser Gly Ser Arg 215 220 gtg aag ctg ctc cgg cgg atc gct gtc ccc acc ctg gtc atc agc ggg 720 Val Lys Leu Leu Arg Arg Ile Ala Val Pro Thr Leu Val Ile Ser Gly 230 235 gcg gaa gat ccc ctc ctg ccg tac cag tgc ggc cgg gac att gcc gac 768 Ala Glu Asp Pro Leu Leu Pro Tyr Gln Cys Gly Arg Asp Ile Ala Asp 245 250 cat atc ccg gga gcc cgc ttc gag ctc atc gag ggc atg ggg cac gac 816 His Ile Pro Gly Ala Arg Phe Glu Leu Ile Glu Gly Met Gly His Asp 260 att ecc gag egg cae ate ecc egg etg att gag etc ate gee ggg eac 864 Ile Pro Glu Arg His Ile Pro Arg Leu Ile Glu Leu Ile Ala Gly His 275 gcc gcg gcc gcg gaa gct taa Ala Ala Ala Glu Ala 290 <210> SEQ ID NO: 2 <211> LENGTH: 294 <213> ORGANISM: (nucleic acid) — SAWL - LYVOY See item #10 on error summary sheet. 2 <400> SEQUENCE: 7 4 Met Ala Gln Val Lys Ala Asn Gly Ile Thr Leu Glu Tyr Glu Glu Gln 10 8 Gly His Arg His His Pro Ser Met Leu Leu Ile Met Gly Leu Gly Gly 25 2 Gln Leu Ile Asp Trp Pro Glu Glu Phe Ile Arg Gly Leu Ala Glu Arg 35 40 Gly Phe Arg Val Ile Cys Phe Asp Asn Arg Asp Ala Gly Leu Ser Thr 55 60 . O Lys Leu Glu Gly Val Lys Lys Pro Asn Ile Ala Arg Val Phe Leu Leu 4 Ala Ser Met Gly Leu Lys Pro Arg Val Pro Tyr Thr Leu Asp Asp Met 90 B Ala Leu Asp Thr Val Gly Leu Met Asp Ala Leu Gly Ile Glu Ser Thr

105

RAW SEQUENCE LISTING

RAW SEQUENCE LISTING DATE: 11/30/2004 PATENT APPLICATION: US/10/686,490B TIME: 12:03:24

Input Set : A:\pto.lm.txt
Output Set: N:\CRF4\11302004\J686490B.raw

132	His	Val	Val	Gly	Val	Ser	Met	Gly	Gly	Met	Ile	Ala	Gln	Ile	Leu	Gly
133			115					120					125			
136	Ala	Lys	His	Gly	Glu	Arg	Val	Lys	Ser	Leu	Thr	Leu	Met	Ile	Thr	Ser
137		130					135				•	140				
140	Ser	Gly	Asn	Pro	Arg	Met	Pro	Ala	Pro	Arg	Pro	Gln	Val	Leu	Gln	Lys
141	145					150					155					160
144	Phe	Met	Arg	Val	Pro	Lys	Ser	Met	Asp	Lys	Glu	Glu	Trp	Ile	Lys	Tyr
145					165					170					175	_
148	Asn	Leu	Glu	Leu	Leu	Thr	Thr	Ile	Gly	Ser	Pro	Gly	Leu	Asp	Arg	Glu
149		-		180					185					190	_	
152	Lys	Leu	Ala	Leu	Asp	Val	Arg	Lys	Ser	Ile	Glu	Arg	Cys	Leu	Cys	Pro
153			195					200					205			
156	Glu	Gly	Thr	Gln	Arg	Gln	Leu	Ala	Ala	Ile	Leu	Gln	Ser	Gly	Ser	Arg
157		210				•	215					220				_
160	Val	Lys	Leu	Leu	Arg	Arg	Ile	Ala	Val	Pro	Thr	Leu	Val	Ile	Ser	Gly
	225										235					240
164	Ala	Glu	Asp	Pro	Leu	Leu	Pro	Tyr	Gln	Cys	Gly	Arg	Asp	Ile	Ala	Asp
165		•			245					250					255	_
168	His	Ile	Pro	Gly	Ala	Arg	Phe	Glu	Leu	Ile	Glu	Gly	Met	Gly	His	Asp
169				260					265					270		_
172	Ile	Pro	Glu	Arg	His	Ile	Pro	Arg	Leu	Ile	Glu	Leu	Ile	Ala	Gly	His
173			275					280				_	285		•	
	Ala		Ala	Ala	Glu	Ala						•				
177		290										•				

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/686,490B

DATE: 11/30/2004 TIME: 12:03:25

Input Set : A:\pto.lm.txt

Output Set: N:\CRF4\11302004\J686490B.raw

4 M:283 W: Missing Blank Line separator, <120> field identifier 5 M:283 W: Missing Blank Line separator, <130> field identifier

6 M:270 C: Current Application Number differs, Replaced Current Application No

6 M:271 C: Current Filing Date differs, Replaced Current Filing Date

6 M:283 W: Missing Blank Line separator, <160> field identifier 13 M:283 W: Missing Blank Line separator, <220> field identifier

18 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1, Line#:16